

CURRICULUM VITAE
Gregory B. Hammer, M.D.

Personal Data

Place of Birth: Chicago, IL
 Citizenship: United States
 Office Address: Department of Anesthesiology,
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Education

Degree

1969 – 73	Phillips Academy, Andover, MA	Phillips Academy, Andover, MA
1973 – 75	Northwestern University, Evanston, IL	None
1975 – 77	University of Wisconsin, Madison, WI	B.S. (With Honors)
1978 – 82	University of Illinois, Chicago, IL	M.D. (With Honors)

Hospital Training

1982 – 85 Residency, Department of Pediatrics, Children’s Hospital Medical Center, Oakland, CA
 1985 – 87 Residency, Department of Anesthesia, Hospital of the University of Pennsylvania, Philadelphia, PA
 1987 – 88 Fellowship, Department of Anesthesia and Critical Care, Children’s Hospital of Philadelphia, Philadelphia, PA

Professional Appointments

1988 – 95	Director, Pediatric Intensive Care Unit, California Pacific Medical Center, San Francisco, CA
1988 – 95	Director, Pediatric Anesthesia, California Pacific Medical Center, San Francisco, CA
1995 – 98	Assistant Professor of Pediatrics, Stanford University School of Medicine, Stanford, CA
1998 – 14	Associate Director, Pediatric Intensive Care Unit, Lucile Packard Children’s Hospital, Stanford, CA
1997 – 00	Director, Anesthesiology Residency Program, Stanford University School of Medicine, Stanford, CA
1997 – 03	Associate Professor of Anesthesiology and Pediatrics, Stanford University School of Medicine, Stanford, CA
2003 –Present	Professor of Anesthesiology and Pediatrics, Stanford University School of Medicine, Stanford, CA

Honors and Awards

1973	Graduation with Honors, Phillips Academy, Andover, MA
1975	Gamma Sigma Delta Award of Merit, University of Wisconsin/Madison
1976 – 97	Goessling Merit Scholarship, University of Wisconsin/Madison
1977	Graduation with Honors, University of Wisconsin/Madison
1982	Graduation with Honors, University of Illinois, Medicine

Scholastic Societies

1976	Honor Society of Phi Kappa Phi
1979	Alpha Omega Alpha

Acknowledgments

- 1996 – Present The Best Doctors in America, Woodward/White, Inc., Aiken, SC
- 1996 – Present The Best Doctors in Silicon Valley, San Jose Magazine.

Certification and Licensure

- 1982 California – Medical License
- 1985 Pennsylvania – Medical License
- 1987 Certified, American Board of Pediatrics
- 1989 Certified, American Board of Anesthesiology
- 1990 Certified, Sub-Board for Pediatric Critical Care Medicine (most recent recertification 2015)
- 1989 – Present Instructor, Pediatric Advanced Life Support (PALS)
- 2014 GCP Training: Collaborative Institutional Training Initiative (CITI) (Current certification 5/17/2017 - 5/17/2020)

Memberships in Professional Societies

- 1985 – Present American Society of Anesthesiologists
- 1988 – Present American Academy of Pediatrics
- 1988 – Present International Anesthesia Research Society
- 1988 – Present Society for Critical Care Medicine
- 1988 – Present Society for Pediatric Anesthesia
- 1989 – Present California Society of Anesthesiologists
- 2005 – Present Association of University Anesthesiologists
- 2020 – Present Chair, Wellness Committee, California Society of Anesthesiologists

2020 – Present Member, Special Interest Group on Wellness, Society of Pediatric Anesthesia

Committees at California Pacific Medical Center

1988 – 95 Critical Care Committee
 1988 – 95 Pediatric Executive Committee
 1988 – 95 Pharmacy and Therapeutics Committee
 1988 – 95 Pediatric Critical Care Committee
 1988 – 95 Formulary Sub-Committee
 1990 – 95 Medicine/Pharmaceutical Ethics Task Force

Committees at Lucile Packard Children’s Hospital/Stanford University Medical Center

1995 – 2015 Pharmacy & Therapeutics Committee
 1995 – 2015 Ethics Committee
 1995 – Present Critical Care Committee
 1995 – Present Code Blue Committee
 2016 – Present Stanford WellMD Committee
 2016 – Present Stanford Physician Peer Support Committee
 2017 Physician Integrative Medicine Committee

Committees of Department of Anesthesia, Stanford University Medical Center

1997 – 08 Resident Selection Committee, Department of Anesthesia
 1997 – 09 Education Committee, Department of Anesthesia
 1997 – 10 Clinical Competence Committee, Department of Anesthesia
 2010 – 14 Research Executive Committee, Department of Anesthesia

2010 – 14 Children’s Heart Center Research Committee

Committees of School of Medicine, Stanford University

1999 – 05 Medical Center Professoriate Appointments Committee

National/International Committees

2006 – Present Pediatric and Neonatal Sedation and Analgesia Task Force, American Academy of Pediatrics

2010 – Present Task Force, Pediatric Sedation, World Society for Intravenous Anesthesia

Course Instruction (Current)

1997 – Present PALS Provider Course, Lucile Packard Children’s Hospital

Editorial Positions

2003-2016 Section Editor, Cardiac Anesthesia, Pediatric Anesthesia

Current Reviewer, Pediatric Anesthesia

Reviewer, Anesthesia and Analgesia

Reviewer, Anesthesiology

Reviewer, Journal of Intensive Care Medicine

Reviewer, Journal of Clinical Anesthesia

Reviewer, Methods and Findings in Experimental and Clinical Pharmacology

Reviewer, European Journal of Pediatrics

Visiting Professorships

1999	Dept. of Anesthesiology, Loma Linda University School of Medicine, Loma Linda, CA
2000	Dept. of Anesthesiology, Hospital Pequeno Principe, Curitiba, Brazil
2000	Dept. of Anesthesiology, Hospital dos Servicos do Estado, Rio de Janeiro, Brazil
2000	Dept. of Anesthesiology, Rigshospitalet, Copenhagen, Denmark
2000	Dept. of Anesthesiology, University of Chicago School of Medicine, Chicago, IL
2000	Dept. of Anesthesiology, Northwestern University School of Medicine, Chicago, IL
2000	Dept. of Anesthesiology, Johns Hopkins University School of Medicine, Baltimore, MD
2000	Dept. of Anesthesiology, Massachusetts General Hospital, Boston, MA
2001	Dept. of Anesthesiology, University of Colorado Medical Center, Denver, CO
2001	Dept. of Anesthesiology, The Henry Ford Hospital, Detroit, MI
2001	Dept. of Anesthesiology, Hospital Pequeno Principe, Curitiba, Brazil
2001	Dept. of Anesthesiology, Hospital dos Servicos do Estado, Rio de Janeiro, Brazil
2001	Dept. of Anesthesiology, New York Medical College, Valhalla, NY
2001	Dept. of Anesthesia, Kobe University School of Medicine, Kobe, Japan
2001	Dept. of Anesthesia, Oregon Health Sciences University, Portland, OR
2003	Dept. of Anesthesia, Kobe University School of Medicine, Kobe, Japan
2003	Depts. Of Anesthesia and Cardiac Surgery, Sydney School of Med., Sydney, Australia
2004	Dept. of Anesthesia, University of Geneva, Geneva, Switzerland
2004	Dept. of Anesthesia, Universidade de Sao Paulo, Sao Paulo, Brazil
2005	Dept. of Anesthesia, Kobe University School of Medicine, Kobe, Japan
2007	Dept. of Anesthesia, University of Glasgow, Glasgow, Scotland
2007	Dept. of Anesthesia, University of Saigon, Ho Chi Minh City, Vietnam

2007	Dept. of Anesthesia, University of Kagoshima, Kagoshima, Japan
2008	Prince of Wales Medical Center, Chinese University, Hong Kong
2008	University of Hong Kong, Queen Mary Hospital, Hong Kong
2009	Dept. of Anesthesia, Zhejiang University, Hangzhou, China
2009	Dept. of Anesthesia, Peking University Medical College, Beijing, China
2009	Dept. of Anesthesia, Shandong University, Jinan, China
2009	KK Children's Hospital, Singapore
2009	National Heart Institute, Kuala Lumpur, Malaysia
2010	Hospital dos Servicos do Estado, Rio de Janeiro, Brazil
2011	Dept. of Anesthesia and Intensive Care, Karolinska University, Stockholm, Sweden
2011	Dept. of Anesthesia and Intensive Care, The Queen Silvia Children's Hospital, Sahlgrenska University, Gothenburg, Sweden
2014	Columbus Children's Hospital, Ohio State University, Columbus, Ohio
2014	C. S. Mott Children's Hospital, University of Michigan, Ann Arbor, Michigan
2018	Dept. of Anesthesiology, Children's Hospital of Philadelphia, Philadelphia, PA
2019	University of Pennsylvania Hospital, Children's Hospital of Philadelphia, Philadelphia, PA

Grants

1998	Zeneca Pharmaceuticals (Hammer GB, Site PI): Determination of the EC50 of propofol during esophagogastroduodenoscopy in children. \$10,000
1999	Dept. of Anesthesia, Stanford University (Hammer GB, PI): Determination of remifentanil pharmacokinetics and pharmacodynamics in infants. \$2,500
1999	GCRC, Stanford University (Hammer GB, PI): Determination of remifentanil pharmacokinetics and pharmacodynamics in infants. \$23,500
2001	Physiometrix, Inc. (Hammer GB, Site PI): A comparison of remifentanil with or without spinal anesthesia for children undergoing open heart surgery. \$61,513

- 2001 Abbott, Inc. (Hammer GB, Site PI): A multicenter, randomized study to determine the pharmacokinetics and pharmacodynamics of fenoldopam mesylate in pediatric subjects. \$103,721
- 2001 Cook Critical Care, Inc. (Hammer GB, PI): Development of web-based educational program for mechanical ventilation in infants and children. \$5,000
- 2002 Purdue Pharma, L.P. (Hammer GB, Site PI): A multicenter, in-patient, open label, dose-ranging study to characterize the pharmacokinetics and safety of an oral liquid formulation of oxycodone in patients from birth to 4 years of age who require opioid analgesia (OXp1005). \$147,055
- 2002 Purdue Pharma, L.P. (Hammer GB, Site PI): A multicenter, double-blind, randomized, placebo-controlled, dose-ranging study to evaluate pharmacokinetics, efficacy, and safety of oxycodone hydrochloride oral solution for the treatment of moderate to severe pain in pediatric patients 5 to \leq 16 years of age (OXp3003). \$120,033
- 2002 Purdue Pharma, L.P. (Hammer GB, Site PI): A multicenter, open-label, multiple-dose study of the conversion from immediate release oxycodone (OxyIR) to controlled release oxycodone (Oxycontin) to evaluate pharmacokinetics and to characterize safety and efficacy in pediatric patients 6 to \leq 16 years of age (OXp3004).
- 2002 GlaxoSmithKline (Hammer GB, Site PI): A study of postoperative nausea and vomiting in infants. \$31,025
- 2004 Baxter Healthcare (Hammer GB, Site PI): Comparison of desflurane and isoflurane for face mask or laryngeal mask airway anesthesia during pediatric surgery. \$139,500
- 2004 Physiometrix, Inc. (Hammer GB, Site PI): Determination of a dosing strategy for the combination of propofol and dexmedetomidine to provide sedation for esophagogastroduodenoscopy in children. \$5,000
- 2005 AlgoRx Pharmaceuticals (Hammer GB, Site PI): A Phase III, randomized, double-blind, placebo-controlled study to confirm the effectiveness and safety of AlgoRx 3268 in pediatric subjects. \$206,687
- 2006 Hospira Sedation, Inc. (Hammer GB, Site PI): A data collection study to evaluate the correlation of the SEDLine PSI with end-tidal sevoflurane concentration in a pediatric patient population. \$156,000
- 2006-7 Roche Pharma (Hammer GB, Site PI): Intravenous granisetron (Kytril) in the prevention of post-operative nausea and vomiting (PONV) in pediatric subjects undergoing tonsillectomy or adenotonsillectomy. \$125,000

- 2006-8 Roxro Pharma, Inc. (Hammer GB, Site PI): A study of the pharmacokinetics of ketorolac tromethamine administered intranasally for postoperative pain in children aged 12 through 17 years. \$133,000
- 2006-9 Purdue Pharma L.P. (Hammer GB, Site PI): A multicenter, in-patient, open-label, within-patient dose-titration study to characterize the PK/PD, safety, and efficacy of hydromorphone HCl solution in subjects from 28 days to 16 years. \$179,140
- 2007 -8 Hospira Sedation, Inc. (Hammer GB, Site PI): A data collection study to evaluate the correlation of the SEDLine PSI with end-tidal sevoflurane concentration in a pediatric patient population. \$185,000
- 2007 -8 Hospira Sedation, Inc. (Hammer GB, Site PI): A SEDLine and BIS data collection study in a pediatric population. \$220,000
- 2008 Hospira, Inc. (Hammer GB, PI): Determination of the pharmacodynamic interaction of propofol and dexmedetomidine during esophagogastroduodenoscopy in children. \$5,000
- 2008 Hospira, Inc. (Hammer GB, PI): The effects of dexmedetomidine on cardiac electrophysiology in children. \$5,000
- 2008 -9 Cadence Pharmaceuticals, Inc. (Hammer GB, Site PI): A prospective, multi-center, randomized, open-label, single and repeated dose, 48-hour study of intravenous acetaminophen in pediatric inpatients to determine pharmacokinetics and safety in acute pain and fever. \$142,732
- 2009-10 NIH / NCRR / NICHD 3UL1RR025744-02S3 (Greenberg H, PI; Hammer GB, Project Director): Methadone vs. Morphine PK/PD in Infants and Young Children after Cardiac Surgery. \$500,000 | Protocol ID: 16739
- 2009-10 NIH 3UL 1RR025780-02S6 (Galinkin, PI; Hammer GB, Investigator): Development of a Small Volume Sampling Technique for Fentanyl Pharmacokinetic, Pharmacodynamic and Pharmacogenetic Analysis in Preterm and Term Neonates with and without Cyanotic Congenital Heart Disease. \$360,180 | Protocol ID: 17903
- 2004-11 NICHD Clinical Trial (NO1-HD-4-3386, Hammer GB, PI): Pharmacokinetics and pharmacodynamics of sodium nitroprusside in pediatric subjects. \$4,300,000. | Protocol ID: 15043, 783
- 2010-11 Pharmaceutical Research Associates, Inc./Hospira (Hammer GB, PI): A Phase II, open-label, multicenter, escalating dose, study to determine pharmacokinetic and pharmacodynamic profile of dexmedetomidine in neonates age >28 weeks to <44 weeks post gestational age. \$136,457

- 2010-12 Pharmaceutical Research Associates/Hospira (Hammer GB, Site PI): A Phase III, randomized, double-blind, dose-controlled, multicenter study evaluating the safety and efficacy of Dexmedetomidine in intubated and mechanically ventilated pediatric Intensive Care Unit subjects. \$635,407 | Protocol ID: 17837
- 2010-12 Pharmaceutical Research Associates, Inc. (Hammer GB, Site PI): An open-label study to characterize the pharmacokinetics and safety of oxycodone hydrochloride q12h controlled-release (orf) tablets in pediatric patients aged 6 to 16 years inclusive, who require opioid analgesia. \$217,968 | Protocol ID: 19568
- 2010-13 NICHD Clinical Trial (NO1-HD-4-3386, Hammer GB, PI): The Incidence of Metabolic Acidosis in Infants and Children Receiving Sodium Nitroprusside for Intraoperative Blood Pressure Control. | Protocol ID: 18980
- 2011-12 Children's Heart Center, Lucile Packard Children's Hospital (Char D, PI; Hammer GB, Senior Investigator/Mentor): The effects of ketamine on dexmedetomidine-induced electrophysiologic changes in children. \$26,500 | Protocol ID: 19849
- 2011-12 Children's Heart Center, Lucile Packard Children's Hospital (Zebrack M, PI; Hammer GB, Senior Investigator/Mentor): The pharmacokinetics of etomidate in children. \$29,500 | Protocol ID: 21289
- 2011-12 Children's Hospital Research Institute, Gallo Award (Damian M, PI Su F, Hammer GB, Senior Investigator/Mentor): The Pharmacokinetics of Dexmedetomidine in Infants and Children following Orthotopic Liver Transplantation. \$100,000 | Protocol ID: 20626
- 2011-12 Quintiles, Inc. (Hammer GB, Site PI): A Multicenter, Open Label, Safety and Pharmacokinetic Study of Oral Morphine Sulfate Administration in Pediatric Subjects 2 years old through 17 years old with Postoperative Pain. \$221,260 | Protocol ID: 20959
- 2013-14 Hospira, Inc. (Hammer GB, Site PI): Phase IV, Open-Label, Safety Study Evaluating the Use of Dexmedetomidine in Pediatric Subjects Undergoing Procedure-Type Sedation. \$195,216 | Protocol ID: 24758
- 2012-15 Cadence Pharmaceuticals, Inc. (Hammer GB, Site PI): A Randomized, Placebo Controlled, Multi-Center Study of the Efficacy Pharmacokinetics (PK) and Pharmacodynamics (PD) of Intravenous (IV) Acetaminophen for the Treatment of Acute Pain in Patients. \$659,851 | Protocol ID: 24342
- 2013-15 Cincinnati Children's Hospital Medical Center (Ramamurthi RJ, site PI, Hammer GB, Senior Site Investigator): Predicting Perioperative Opioid Adverse Effects and Personalizing Analgesia in Children: A Multicenter Pharmacogenetic Study. | Protocol ID: 26380

- 2014-17 The Medicines Company (Hammer GB, Site PI): Open label study to assess the efficacy, safety and dosing of clevidipine in pediatric patients undergoing surgery (PIONEER study). \$179,707.00 | Protocol ID: 27723
- 2013-17 Depomed (Hammer GB, PI): A Phase 4, Open-Label Study of the Safety and Efficacy of Zipsor (diclofenac potassium) Liquid Filled Capsules in Pediatric Subjects (Ages 2-12 years) with Mild to Moderate Acute Pain. \$93,984 | Protocol ID: 31092
- 2014-16 Grunenthal (Hammer GB, Site PI): An Evaluation of the Efficacy and Safety of Tapentadol Oral Solution in the Treatment of Post-Operative Acute Pain Requiring Opioid Treatment in Pediatric Subjects Aged from Birth to Less than 18 Years Old. \$375,334.00 | Protocol ID: 30065
- 2014-15 CHRI (Rao V, PI: Hammer GB, Senior Investigator) Oxidative stress in pediatric patients undergoing cardiac surgery with cardiopulmonary bypass. | Protocol ID: 31720.
- 2014-15 CHRI (Su F, PI: Hammer GB, Senior Investigator) Pharmacokinetics of Antibiotics During CVVH-D.
- 2014-17 Grunenthal (Hammer GB, Site PI): Open-label evaluation of the population pharmacokinetic profile, safety, tolerability, and efficacy of tapentadol oral solution for the treatment of post-surgical pain in children aged from birth to less than 2 years. \$152,449.00 | Protocol ID: 30907
- 2014-2018 NIH (Grant # 1 U19AI090019-04), Bill & Melinda Gates Foundation (Lopez-Angel C, Hammer GB, Davis M) Immunological Memory Development in Blood and Lymphoid Tissues of Infants and Children.
- 2016 – 2018 MK0517-044 (Hammer GB, Site PI): A Phase III, Randomized, Active Comparator-Controlled Clinical Trial to Study the Efficacy and Safety of MK-0517/Fosaprepitant and Ondansetron versus Ondansetron Alone for the Prevention of Chemotherapy-Induced Nausea and Vomiting (CINV) in Pediatric Subjects Receiving Emetogenic Chemotherapy. | Protocol ID: 34366
- 2017-2019 Masimo (Hammer, GB, PI): SedLine Engineering Data Collection Study in Pediatric Patients Undergoing General Anesthesia or Sedation (Hammer GB, Site PI). \$199,415.00 | Protocol ID: 39024
- 2017-2019: TRV 130 (Hammer GB, Site PI): A phase 3, open-label study to evaluate the safety of oliceridine (TRV130) in patients with acute pain for which parenteral opioid therapy is warranted. \$181,826.00 | Protocol ID: WIRB#1167046
- 2018-20: MK-8616-089 (Hammer GB, Site PI): A Phase 4 Double-Blinded, Randomized, Active Comparator Controlled Clinical Trial to Study the Efficacy, Safety, and Pharmacokinetics of Sugammadex (MK-8616) for reversal of Neuromuscular Blockade in Pediatric Participants. \$312,347.00 | Protocol ID: 42975

- 2018-20: HC-G-H-1 601 (Hammer GB, Site PI): A Phase 4, Open-Label, Single-Dose, Parallel-Group Study to Evaluate the Safety of 1 g of Cefazolin in Pediatric Subjects With a Weight of at Least 25 kg but Less Than 60 kg Scheduled for Surgery and the Safety of 2 g of Cefazolin in Pediatric Subjects With a Weight of at Least 60 kg Scheduled for Surgery. | Protocol ID: 45877
- 2018-20: NIH Cooperative Centers for Translational Research in Human Immunology (Hammer GB, Project Co- Leader): Immunologic adaptations correlated to risk of infection in pediatric heart failure patients after left ventricular assist device placement.

Peer-Reviewed Articles

1. Hammer GB, Schwinn D, Wollman H: Post-operative complications due to paradoxical vocal cord motion. *Anesthesiology* 1987; 66:686-687. PMID: 3578883
2. Hammer GB: Ultra-high dose trimethaphan in an infant with severe hypertension. *Clinical Toxicology* 1996;34:227- 229. PMID: 8618259
3. Hammer GB, Krane EJ: Perioperative care of the neurosurgical pediatric patient. *INT Anesthesiol Clin.* 1996;34(4):55- 71. PMID: 8956064
4. Hammer GB, So S, Conley S, et al: Continuous venovenous hemofiltration with dialysis in combination with total hepatectomy and portocaval shunting: bridge to liver transplantation. *Transplantation* 1996;61:1-3. PMID: 8693530
5. Hammer GB, Manos SJ, Smith BM, Skarsgard ED, Brodsky JB: Single lung ventilation in pediatric patients. *Anesthesiology* 1996;84:1503-1506. PMID: 8669693
6. Hammer GB, Frankel LR: Mechanical ventilation for pediatric patients. *Int Anesthesiol Clin.* 1997;35(1):139-67. PMID: 9113526
7. Cacciarelli TV, Esquivel CO, Moore DH, Cox KL, Berquist WE, Concepcion W, Hammer GB, So SKS: Factors affecting survival after orthotopic liver transplantation in infants. *Transplantation* 1997;64:242-248. PMID: 9256181
8. Alfrey EJ, Conley SB, Tanney DC, Mak R, Scandling JD, Dafoe DC, Hammer GB, et al: Use of an augmented urinary bladder can be catastrophic in renal transplantation. *Transplantation Proceedings* 1997;29:154-155. PMID: 9122939
9. Hammer GB, Chuljian P, Al-Uzri A, et al: Intraoperative management of small children undergoing kidney transplantation. *American Journal of Anesthesiology* 1997;24:37-39.
10. Salvatierra O, Tanney D, Mak R, Alfrey E, Lemley K, Mackie F, So S, Hammer GB, et al: Pediatric renal transplantation and its challenges. *Transplantation Reviews* 1997;11:51-69.

11. Salvatierra O, Alfrey E, Tanney DC, Mak R, Hammer GB, et al: Superior outcomes in pediatric renal transplantation. *Archives of Surgery* 1997;132:842-849. PMID: 9267267
12. Hammer GB: The use of propofol anesthesia for children undergoing cardioversion. *J Int Care Med* 1997;12:223-224.
13. Lammers CR, Hammer GB, Brodsky JB, Cannon WB: Failure to separate and isolate the lungs with an endotracheal tube positioned in the bronchus. *Anesth Analg*. 1997;85(4):946-7. PMID: 9322490
14. Alfrey EJ, Conley SB, Tanney DC, Mak R, Scandling JD, Dafoe DC, Hammer GB, et al: Bladder augmentation can be problematic with renal failure and transplantation: Report of 10 cases. *Pediatric Nephrology* 1997;11:672-675. PMID: 9438639
15. Hammer GB, Brodsky JB, Redpath J, Cannon WB: The Univent tube for single lung ventilation in children. *Pediatr Anesth* 1998;8:55-57. PMID: 9483599
16. Hammer GB, Cao S, Boltz MG, Messner A: Post-transplant lymphoproliferative disease (PTLD) may present with acute, life-threatening airway obstruction. *Anesthesiology* 1998;89:263-265. PMID: 9667319
17. Hammer GB, Fitzmaurice BG, Brodsky JB: Methods for single lung ventilation in pediatric patients. *Anesth Analg* 1999;89:1426-1429. PMID: 10589621
18. Hammer GB: Regional anesthesia for pediatric cardiac surgery. *J Cardiothoracic Vasc Anesth* 1999;13:210-213. PMID: 10230960
19. Fitzmaurice BG, Zuckerman K, Brodsky JB, Hammer GB: A smaller double-lumen tube for older children. *J Clin Anesth*. 1999;11(1):79. PMID: 10396725
20. Hammer GB, Krane EJ: Venous access for pediatric liver transplantation. *Anesthesiology* 1999;91(1):322-3. PMID: 10422964
21. Seavello J, Hammer GB: Tracheal intubation in a child with trismus pseudocamptodactyly (Hecht) syndrome. *J Clin Anesth* 1999;11:254-256. PMID: 10434225
22. Cao S, Cox KL, Berquist W, Hayashi M, Concepcion W, Hammer GB, et al: Long-term outcomes in pediatric liver recipients: Comparison between cyclosporin A and tacrolimus. *Pediatr Transplantation* 1999;3:22-26. PMID: 10359027
23. Hammer GB, Ngo K, Macario A: A retrospective examination of regional plus general anesthesia in children undergoing open heart surgery. *Anesth Analg* 2000;90:1020-1024. PMID: 10781446
24. Hammer GB, Krane EJ: Anesthesia for Liver Transplantation in Children. *Pediatr Anesth* 2001;1:3-18. PMID: 11123726
25. Hammer GB: Pediatric thoracic anesthesia. *Anesth Analg* 2001;92:1449-1464. PMID: 11375825

26. Hammer GB: Selective bronchial blockade in small infants. *Anesth Analg*. 2001;93(6):1624-5. PMID: 11726460
27. Hammer GB, Litalien C, Wellis V, Drover DR: Determination of the median effective concentration (EC50) of propofol during esophagogastroduodenoscopy in children. *Pediatr Anesth* 2001;11:549-554. PMID: 11696118
28. Hammer GB , Funck N, Rosenthal DN, Feinstein J: A technique for maintenance of airway access in infants with a difficult airway following tracheal extubation. *Pediatr Anesth* 2001;11:622-625. PMID: 11696131
29. Uezono S, Hammer GB , Wellis V, et al: Anesthesia for outpatient repair of patent ductus arteriosus. *J Cardiothorac Vasc Anesth* 2001;15:750-752. PMID: 11748526
30. Hammer GB, Harrison TK, Vricella LA, Black MD, Krane EJ: Single lung ventilation in children using a new pediatric bronchial blocker. *Pediatric Anesthesia* 2002;12:69-72. PMID: 11849579
31. Hammer GB: Pediatric thoracic anesthesia. *Anesthesiol Clin North America* 2002;20:153-180. PMID: 11892503
32. Rosen DA, Rosen KR, Hammer GB: Pro: regional anesthesia is an important component of the anesthetic technique for pediatric patients undergoing cardiac surgical procedures. *J Cardiothorac Vasc Anesth* 2002;16:374-378. PMID: 12073215
33. Falco D, Hammer GB: Paradoxical vocal cord motion causing respiratory failure following tracheostomy decannulation. *Pediatric Critical Care Medicine* 2002;3:185-186. PMID: 12780992
34. Hammer GB, Feinstein J: Transesophageal echocardiography guided transventricular balloon dilation of congenital critical aortic stenosis in the neonate and young infant. *J Cardiothor Vasc Anesth* 2002;16:766-772. PMID: 12486662
35. Hammer GB: Differential lung ventilation in infants and children with pulmonary hyperinflation. *Pediatr Anesth* 2003;13:373-374. PMID: 12791108
36. Hammer GB: Anaesthetic management for the child with a mediastinal mass. *Pediatr Anesth* 2004;14:95-97. PMID: 14717880
37. Hammer GB: Single lung ventilation in infants and children. *Pediatr Anesth* 2004;14:98-102. PMID: 14717881
38. Drover DR, Litalien C, Wellis V, Shafer SL, Hammer GB: Determination of the pharmacodynamic interaction of propofol and remifentanyl during esophagogastroduodenoscopy in children. *Anesthesiology* 2004;100:1382-1386. PMID: 15166555
39. Hammer GB , Ramamoorthy C, Cao H, Williams GD, Boltz MG, Kamra K, Drover DR: Postoperative analgesia after spinal blockade in infants and children undergoing cardiac surgery. *Anesth Analg* 2005;100(5):1283-88. PMID: 15845670

40. Hammer GB, Philip BM, Schroeder AR, Rosen FS, Koltai PJ: Prolonged infusion of dexmedetomidine for sedation following tracheal resection. *Pediatr Anesth* 2005;15:616-620. PMID: 15960649
41. Hammer GB: The role of alpha-2 agonists in pediatric anesthesia. *Can J Anaesth* 2005;52(6):R1-3. ISSN: 0832-610X (print version) ISSN: 1496-8975 (electronic version) Journal no. 12630.
42. Mariano ER, Ramamoorthy C, Chu LF, Chen M, Hammer GB: A comparison of three methods for determining appropriate tracheal tube positioning in children. *Pediatr Anesth* 2005;15(10):846-851. PMID: 16176312
43. Golianu B, Hammer GB: Pediatric thoracic anesthesia. *Curr Opin Anaesthesiol* 2005;18(1):5-11. PMID:16534311
44. Golianu B, Hammer GB: Pain management for pediatric thoracic surgery. *Curr Opin Anaesthesiol* 2005;18(1):13-21. PMID: 16534312
45. Brady KM, Harris L, Hammer GB, et al: Lung isolation in a child with unilateral necrotizing clostridium perfringens pneumonia. *Crit Care Med* 2005;33:2676-2680. PMID: 16276197
46. Williams GD, Ramamoorthy C, Chu L, Hammer GB, Kamra K, Boltz MG, Pentcheva K, McCarthy JP, Reddy VM: Modified and conventional ultrafiltration during pediatric cardiac surgery: clinical outcomes compared. *J Thorac Cardiovasc Surg* 2006;32:1291-8. PMID: 17140945
47. Hammer GB, Golianu B: Opioid analgesia in neonates following cardiac surgery. *Semin Cardiothorac Vasc Anesth.* 2007;11(1):47-58. PMID: 17484173
48. Hammer GB: An alternative airway adaptor for single-lung ventilation in infants. *Anesth Analg.* 2007;105(3):892-3. PMID: 17717276
49. Seybold JL, Ramamurthi RJ, Hammer GB: The use of dexmedetomidine during laryngoscopy, bronchoscopy, and tracheal extubation following tracheal reconstruction. *Pediatr Anesth* 2007;17:1212-4. PMID: 17986042
50. Hammer GB, Williams GD: Use of recombinant activated factor VII in children. *Pediatr Anesth* 2007;17(12):1123-5. PMID: 17986029
51. Williams GD, Phillips BM, Boltz MG, Kamra K, Hammer G, Perry SB, Feinstein JA, Ramamoorthy C: Ketamine does not increase pulmonary vascular resistance in children with pulmonary hypertension undergoing sevoflurane anesthesia and spontaneous ventilation. *Anesth Analg* 2007;105(6):1578-84. PMID: 18042853
52. Hammer GB: Total intravenous anesthesia in infants and children. *Clin Ped Anesth* 2007;13:38-41.
53. Hammer GB: Sevoflurane and emergence delirium. *Clin Ped Anesth* 2007;13:49-51.
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15. Hammer GB, Conley S, So S, Concepcion W, Esquivel C, Al-Uzri A: CVVH-D in combination with total hepatectomy and portocaval shunting: Bridge to liver transplantation. *Blood Purif* 1995;13:400.
16. Alfrey EJ, Conley SB, Tanney DC, Mak R, Hammer GB, Orlandi PD, Page L, DaFoe DC, Salvatierra O: Urinary bladder augmentation can be catastrophic. Fifteenth Annual Scientific Meeting of American Society of Transplant Physicians, 1996.
17. Diekmann-Guiroy B, So S, Esquivel C, Cox K, Concepcion W, Berquist W, Hammer GB, et al: Early combined liver- kidney transplantation in infants with primary hyperoxaluria type 1. Fifteenth Annual Scientific Meeting of American Society of Transplant Physicians, 1996.
18. Hammer GB, Pike N, Sulenski K, et al.: A critical pathway for the repair of atrial septal defects (ASD) reduces hospital costs and length of stay in children. 9th Annual Pediatric Critical Care Colloquium, Milwaukee, WI, 1996
19. Hammer GB, Bergman DA, Sulenski K, et al.: The development of critical pathways for the management of children undergoing liver transplantation. 9th Annual Pediatric Critical Care Colloquium, Milwaukee, WI, 1996.
20. Hammer GB, Cao S, Messner A, et al.: Post-transplant lymphoproliferate disorder (PTLD) may present with acute, life threatening airway obstruction. 9th Annual Pediatric Critical Care Colloquium, Milwaukee, WI, 1996.
21. Hammer GB, Rosner J, Krane EJ, et al.: Single lung ventilation in pediatric patients. Meeting of the American Society of Anesthesiologists, New Orleans, LA, 1996.
22. Hammer GB, Bergman DA, Sulenski K, et al.: The development of critical pathways for the management of children undergoing liver transplantation. 9th Annual Pediatric Critical Care Colloquium, Milwaukee, WI, 1996.
23. Hammer GB, Cao S, Messner A, et al.: Post-transplant lymphoproliferate disorder (PTLD) may present with acute, life threatening airway obstruction. 9th Annual Pediatric Critical Care Colloquium, Milwaukee, WI, 1996.
24. Hammer GB, Rosner J, Krane EJ, et al.: Single lung ventilation in pediatric patients. Meeting of the American Society of Anesthesiologists, New Orleans, LA, 1996.
25. Salvatierra O, Alfrey EJ, Tanney DC, Mak R, Hammer GB, et al: Pediatric renal transplants can be very successful. Pacific Coast Surgical Association, Napa, California, February, 1997.
26. Cao S, Esquivel CO, Cox K, Hammer GB, et al: Development of EBV-associated PTLD of the upper respiratory tract in pediatric liver recipients. The American Society of Transplant Physicians Annual Meeting, Chicago, IL, May, 1997.
27. Andrus J, Frankel LR, Rhine W, Van Meurs K, Derish M, DiCarlo JV, Mathers LH, Hammer GB. Bronchopleural fistula (BPF) treated with asynchronous lung ventilation. 11th Annual Pediatric Critical Care Colloquium, Chicago, Illinois, 1998.

28. Hammer GB, Ngo K , Macario A, Boltz MG, Hill L: Spinal vs. epidural anesthesia and analgesia in children undergoing open heart surgery. *Anesthesiology* 1999;91:A1286.
29. Hammer GB, Boltz MG, Macario A, Hill L, Ngo K: Spinal vs. epidural anesthesia and analgesia in children undergoing open heart surgery facilitates tracheal extubation in the OR without prolonging OR time. Society for Pediatric Anesthesia Winter Meeting, Las Vegas, Nevada, February, 1999.
30. Hammer GB, Litalien C, Wellis V, Drover D, Garcia M. Determination of the EC50 of propofol during esophagogastroduodenoscopy in children. *Anesthesiology* 1999; 91:A1268.
31. Hammer GB, Litalien C, Wellis V, Drover D, Garcia M. Determination of the EC50 of propofol during esophagogastroduodenoscopy in children. *Anesthesiology* 1999; 91:A1268.
32. Hammer GB, Litalien C, Wellis V, Drover D, Garcia M. Determination of the EC50 of propofol combined with remifentanil during esophagogastroduodenoscopy in children. *Anesthesiology* 1999;91:A1265.
33. Hammer GB, Andrus JP, Frankel LR, Brodsky JB. Guidelines for lung isolation in the PICU. *Clinical Intensive Care* 1999; 10(4): 145-157.
34. Harrison TK, Hammer GB. A new technique for single lung ventilation in children. Western Anesthesia Residents' Conference, Portland, Oregon, April, 2001.
35. Hammer GB, Drover DR, Ramamoorthy, et al: Comparison of remifentanil with or without spinal anesthesia for children undergoing open heart surgery. *Anesthesiology* 2002;96:A1222.
36. Hammer GB, Drover DR, Ramamoorthy, et al: Postoperative respiratory depression in children anesthetized with remifentanil with or without spinal anesthesia for open heart surgery, *Anesthesiology* 2002;96:A1223.
37. Verghese ST, Hammer GB, Lavandosky G, et el: A multicenter, randomized study to determine the pharmacokinetics and pharmacodynamics of fenoldopam mesylate in pediatric patients. *Anesthesiology* 2003;99:A1445.
38. Mariano ER, Ramamoorthy C, Chen M, Hammer GB. A comparison of three methods for determining proper tracheal tube depth in children. SPA, Phoenix, March 2004.
39. Drover DR, Hammer GB, Williams GD, et al: A comparison of patient state index (PSI) changes and remifentanil requirements during cardiopulmonary bypass in infants undergoing general anesthesia with or without spinal anesthesia. *Anesthesiology* 2004;101:A1453.
40. Demers RR, Hammer GB, Frankel LR, Kache S. Use of a bronchial blocker for the treatment of massive hemoptysis. *Respir Care* 2005;50:1481.
41. Hammer GB, Cao H, Drover DR, et al: Dexmedetomidine for sedation and analgesia following tracheal reconstruction in children. Society for Pediatric Anesthesia Winter Meeting, Ft. Myers, FL, February 2006.

42. Hammer GB, Cao H, Drover DR, et al: Dexmedetomidine does not facilitate rapid weaning from morphine and midazolam after prolonged use in children. Society for Pediatric Anesthesia Winter Meeting, Ft. Myers, FL, February 2006.
43. Krane EJ, Finkel B, Finkel J, Hammer GB, et al: ALGRX 3268 produces well-tolerated local anesthesia within 1 to 3 minutes for venipuncture and peripheral venous cannulation procedures in children. Society for Pediatric Anesthesia Winter Meeting, Ft. Myers, FL, February 2006.
44. Harrison TK, Hammer GB, Frankel LR, et al: Use of a new pediatric simulator for training in Pediatric Advanced Life Support. Society for Pediatric Anesthesia Winter Meeting, Ft. Myers, FL, February 2006.
45. Williams GD, Boltz GM, Chu L, Kamra K, Kuan C, Hammer GB, Reddy VM, Ramamoorthy C: Anesthetic management of low birth weight infants undergoing open-heart surgery: a retrospective study. Society of Pediatric Anesthesia Meeting. March 2007, Phoenix, AZ.
46. Williams GD, Kamra, K, Boltz MG, Hammer GB, Kuan C, Ramamoorthy C: Complications in children undergoing cardiac catheterization with general anesthesia. Society of Pediatric Anesthesia Meeting. March 2007, Phoenix, AZ.
47. Anderson J, Ramamoorthy C, Boltz MG, Kamra K, Kuan C, Hammer GB, Williams GD: Children with heart disease: adverse events during general anesthesia. Society of Pediatric Anesthesia Meeting. March 2007, Phoenix, AZ.
48. Seybold JL, Ramamurthi RJ, Hammer GB: The use of dexmedetomidine during laryngoscopy, bronchoscopy, and tracheal extubation following tracheal reconstruction. Annual Meeting of the Society for Pediatric Anesthesia. San Francisco, CA, October 2007.
49. Hammer GB, Cao H, Jackson E, Williams G, Ramamoorthy CR, Van Hare GF, Niksch A, Dubin AM: The effects of dexmedetomidine on cardiac electrophysiology in children. Annual Meeting of the Society for Pediatric Anesthesia. San Francisco, CA, October 2007.
50. Seybold JL, Ramamurthi RJ, Hammer GB: The use of dexmedetomidine during laryngoscopy, bronchoscopy, and tracheal extubation following tracheal reconstruction. Annual Meeting of the Society for Pediatric Anesthesia. San Francisco, CA, October 2007.
51. Drover DR, Hammer GB: The Pharmacokinetics of intranasal ketorolac in children. SPA/AAP Pediatric Anesthesiology 2010 Winter Meeting, San Antonio, Texas, April 2010.
52. Hammer GB, Drover DR, Krane EJ, Cohane CA, Tingle M, Gallinkin J: Comparative opioid pharmacology after cardiac surgery—a multi-site, NIH-funded study. SPA/AAP Pediatric Anesthesiology 2010 Winter Meeting, San Antonio, Texas, April 2010.
53. Ramamoorthy C, Hammer GB, Galinkin J, Drover DR. The pharmacokinetics of ketamine in pediatric cardiac patients. SPA/AAP Pediatric Anesthesiology 2010 Winter Meeting, San Antonio, Texas, April 2010.

54. Clavijo CF, Thomas JJ, Hammer GB, Christians U, Galinkin J. A sensitive LC-MS/MS assay for quantification of methadone and its metabolites in dried blood spots. Annual Meeting of the American Society of Anesthesiologists, San Diego, CA, October, 2010.
55. Spielberg DR, Schulman SR, Drover DR, Hammer GB, et al. Clinician learning and technique in deliberate hypotension using sodium nitroprusside in children. Annual Meeting of the American Society of Anesthesiologists, Chicago, IL, 2010.
56. Schulman SR, Spielberg DR, Hammer GB, Drover DR, et al. Clinical predictors of hemodynamic response to nitroprusside in children. Annual Meeting of the American Society of Anesthesiologists, Chicago, IL, 2010.
57. Hirankarn S, Hammer GB, Schuman SR, et al. Population PK-PD model of sodium nitroprusside in children. *Clin Pharm Ther* 2011;89 (suppl 1):S55.
58. Hammer GB, Yaster M, Royal MA, Marier JF, et al. IV acetaminophen dosing simulations in neonates and infants. *Clin Pharm Ther* 2011;89 (suppl 1):S7.
59. Hammer GB, Drover DR, Connolly SG, et al. Sodium nitroprusside is not associated with metabolic acidosis in children. 15th WFSA World Congress of Anaesthesiologists, Buenos Aires, Argentina, March, 2012.
60. Char, D, Drover, D, Hammer, G. The Effects of Ketamine on Dexmedetomidine-Induced Electrophysiologic Changes in Children. Society of Pediatrics and American Academy of Pediatrics Section on Anesthesiology and Pain Medicine Winter Meeting, Tampa, FL, February 2012.
61. Hammer, G, Drover, D, Connolly, et al. Sodium Nitroprusside Is Not Associated with Metabolic Acidosis During Intraoperative Infusion in Children. Society of Pediatrics and American Academy of Pediatrics Section on Anesthesiology and Pain Medicine Winter Meeting, Tampa, FL, February 2012.
62. Benkwitz, C, Hammer, G. Thrombotic endotracheal tube occlusion after administration of recombinant Factor VII. Accepted for publication, *J Cardiothorac Vasc Anesth*, 2012.
63. Hammer GB, Soliman G, Newth C, Boriosi J, Schulman S. A Phase III, Randomized, Double-Blind, Dose-Controlled, Multicenter Study of the Safety and Efficacy of Dexmedetomidine in Mechanically Ventilated Children. Annual meeting of the International Anesthesia Research Society, Boston, MA, May 2012.
64. Glotzbach KL, Drover DR, Galinkin J, Cohane C, Hammer GB. A comparative study of methadone and morphine for postoperative analgesia in infants and children undergoing congenital heart surgery. The Pediatric Cardiac Intensive Care Society 9th International Conference, Miami Beach, Florida, December, 2012.
65. Su F, Hammer GB, Drover D, et al. The Pharmacokinetics of Etomidate in Neonates and Infants with Congenital Heart Disease. Annual Meeting of the Society of Critical Care Medicine, Phoenix, AZ, January 2015.

66. Muffly M, Chen M, Claire R, Drover DR, Hammer GB. Proceed with caution: Dramatic dose variability associated with small volume injections. Society for Pediatric Anesthesia - American Academy of Pediatrics Spring Meeting, Colorado Springs, CO, April, 2016.
67. Damian M, Hammer GB, El-Komy M, Frymoyer A, Drover DR, Su F. The pharmacokinetics of dexmedetomidine in infants and children undergoing isolated orthotopic liver transplantation. Society for Critical Care Medicine 45th Critical Care Congress, Orlando, FL, February, 2016.
68. Kruse KE, Purohit PJ, Cadman CR, Su F, Hammer GB. The incidence of subglottic stenosis following cardiac surgery in infants and children. Society for Critical Care Medicine 45th Critical Care Congress, Orlando, FL, February, 2016.
69. Tarau E, Rosen R, Watson E, Diekmann J, Letal J, Hammer GB, Lefeber C. Evaluation Of The Pharmacokinetic- Profile, Safety, And Efficacy Of Tapentadol Oral-Solution For Postsurgical Pain In Children From Birth To Less Than 2 Years. European Academy of Pediatric Societies Congress, Paris, France, November 2018.
70. Brzezinski M, Hammer GB, Bergese SD, Pan PH, Michalsky C, et al. Low incidence of opioid-induced respiratory depression observed with oliceridine regardless of age or body mass index. eAbstract Presentation number A2228, American Society of Anesthesiologists Annual Meeting, 2019
71. Hammer GB, Brzezinski M, Candiotti KA, Bergese SD, Pan PH, et al. Improved Tolerability With Oliceridine Compared To Morphine At Equianalgesic Doses. eAbstract Presentation number A4281, American Society of Anesthesiologists Annual Meeting, 2020.

Invited Extramural Presentations – Local/Regional

1. Persistent pulmonary hypertension in the newborn. *Frontiers in Pediatric Research*. Oakland, CA, November 1984.
2. Alfentanil: A newer synthetic opioid. Department of Anesthesia, Children's Hospital, Oakland 1988.
3. Congenital airway anomalies. Grand Rounds, Department of Pediatrics, Pacific Presbyterian Medical Center. April 1988.
4. Airway management for the emergency medicine physician. Grand Rounds, Emergency Physician Medical Group. San Francisco, May 1989.
5. Pediatric airway management. Grand Rounds, Department of Pediatrics, Santa Clara Valley Medical Center, July 1989.

6. Airway management for the primary care physician. Pacific Presbyterian Medical Center, September 1989.
7. Pediatrics for the Primary Care Physician: Update 1989. Pacific Presbyterian Medical Center, September 1989.
8. Emergency pediatric airway management. Trauma, Tots, and Trends. Santa Clara, CA, May 1992.
9. Stabilization of the pediatric burn patient. Fifth Annual Emergency Medical Services Conference. San Francisco, May, 1992.
10. Stabilization of the critically ill child: Airway management and pharmacologic therapy. Pediatric Critical Care: The First Hours. Rohnert Park, CA, September 1992.
11. Down's syndrome: Anesthetic management. Current Topics in Pediatric Anesthesia. Children's Hospital at Stanford, October 1992.
12. Management of pediatric pain. California Medical Association Western Scientific Assembly. Anaheim, CA, February 1993.
13. Pediatric regional anesthesia. Anesthesia Grand Rounds. Good Samaritan Hospital, San Jose, CA, April 1993.
14. Emergency airway management. Pediatric Critical Care: The First Hours. Rohnert Park, CA., September 1995.
15. Acute pain management in infants and children. Pediatric Pain: Children and Their Special Needs. Packard Children's Hospital at Stanford, April 1996.
16. Case presentations in pediatric anesthesia. California Society of Anesthesiologists Case Conference in Anesthesia. Napa, CA, August 1996.
17. Pediatric anesthesia update. Current Topics in Pediatric Anesthesia. UCSF, San Francisco, CA, May 1997.
18. Sedation and analgesia for pediatric patients. Las Vegas Pediatric Society, October 1997.
19. Pediatric resuscitation for the anesthesiologist. UCSD Anesthesia Update. San Diego, January 1998.
20. Conscious sedation in children. Santa Rosa Community Hospital, Santa Rosa, CA, January 1999.
21. Conscious sedation in adult patients. Santa Rosa Memorial Hospital, Santa Rosa, CA, January 1999.
22. Sedation and analgesia in children. Meeting of California Health Systems. San Diego, March 1999.
23. Current topics in pediatric anesthesia. Lucile Packard Children's Hospital, Stanford, CA, April 1999.

24. Sedation, analgesia, and neuromuscular blockade in the ICU: trends in critical care. Hanford Community Medical Center, Hanford, CA, July 1999.
25. Case presentations in pediatric anesthesia. Annual Meeting of the California Society of Anesthesiologists. San Francisco, CA, May 1999.
26. Management of acute hypertension in infants and children. Pediatric Grand Rounds. California Pacific Medical Center. San Francisco, CA, July 1999.
27. Management of perioperative hypertension in infants and children. Anesthesia Grand Rounds. Loma Linda Medical Center, August 1999.
28. Management of perioperative hypertension in the transplant patient. Department of Transplant Surgery. Loma Linda Medical Center, August 1999.
29. Management of perioperative hypertension in infants and children. Anesthesia Grand Rounds. California Pacific Medical Center, September 1999.
30. Stabilization and transport of the critically ill child. Medical Grand Rounds. Santa Rosa Memorial Hospital, Santa Rosa, CA, September 1999.
31. Emergency airway management. REACH Emergency Medicine Conference. Santa Rosa, CA, September 1999.
32. Resuscitation in infants and children. REACH Emergency Medicine Conference. Santa Rosa, CA, September 1999.
33. Pediatric pain management. New Mexico Society of Anesthesiologists Annual Meeting. Santa Fe, NM, April 2002.
34. Anesthesia for children with congenital heart disease. New Mexico Society of Anesthesiologists Annual Meeting. Santa Fe, NM, April 2002.
35. Pediatric thoracic anesthesia: nuts and bolts of pediatric anesthesia. San Francisco, CA, March 2003.
36. Anesthesia for pediatric cardiac surgery. Annual Meeting of the Oregon Society of Anesthesiologists. Bend, OR, September 2003.
37. Anesthesia for pediatric thoracic surgery. Annual Meeting of the Oregon Society of Anesthesiologists. Bend, OR, September 2003.
38. TIVA in children: nuts & bolts of pediatric anesthesia, San Francisco, CA, March 2005.
39. Total intravenous anesthesia in pediatric anesthesia. CSA/UCSD Annual Meeting Review Course. San Francisco, CA, May 2005.
40. Anesthesia for pediatric patients with congenital heart disease undergoing non-cardiac surgery. CSA/UCSD Annual Meeting Review Course, San Francisco, CA, May 2005.

41. Anesthetic management of children with foreign body aspiration. Annual Meeting of the American College of Surgeons. San Francisco, CA, October 2008.
42. Regional anesthesia in children. Forty-seventh Clinical Conference in Pediatric Anesthesiology. Anaheim, CA, February, 2009.
43. The difficult pediatric airway. Forty-seventh Clinical Conference in Pediatric Anesthesiology. Anaheim, CA, February 2009.
44. The use of acetaminophen in children. Forty-seventh Clinical Conference in Pediatric Anesthesiology. Anaheim, CA, February 2009.
45. Single Lung Ventilation in Infants and Children. Society of Pediatrics and American Academy of Pediatrics Section on Anesthesiology and Pain Medicine Winter Meeting, Tampa, FL, February 2012.
46. Dexmedetomidine in the PICU. 19th Pediatric Critical Care Colloquium, Santa Monica, CA, September 2012.
47. Innovations in Analgesia. Pediatric Sedation Outside of the Operating Room, San Francisco, CA, September 2012.
48. A pediatric anesthesiologist attending a specific training in cardiac anaesthesia is the best candidate for a new pediatric cardiac anaesthesia program. Annual Congress of the European Society of Pediatric Anesthesia, Stresa, Italy, September 2012.

Invited Extramural Presentations – National/International

1. Echocardiography in PPHN: Usefulness in predicting response to tolazoline. Second World Congress of Pediatric Cardiology. New York, NY, June 1986.
2. Sedation, analgesia, and neuromuscular blockade in critically ill children. American College of Chest Physicians Annual Meeting. San Francisco, CA, November 1991.
3. Anesthetic considerations for cosmetic surgery. 1994 International Symposium on Plastic Surgery. Florence, Italy, May 1994.
4. Clinical forum on pediatric anesthesia. Meeting of the American Society of Anesthesiologists. New Orleans, LA, October 1996.
5. Topics in pediatric anesthesia. Annual Meeting of the American Society of Anesthesia Technologists and Technicians. San Diego, October 1997.
6. Total intravenous anesthesia in infants and children. Society for Pediatric Anesthesia Annual Scientific Meeting. New Orleans, LA, October 1999.
7. Thoracic anesthesia for pediatric patients. ASA Refresher Course. Phoenix, AZ, March 2000.

8. Total intravenous anesthesia for pediatric patients. ASA Refresher Course. Phoenix, AZ, March 2000.
9. Regional anesthesia for cardiac surgery in infants and children. Conference on Pediatric Anesthesia. Crianca 2000, Curitiba, Brazil, May 2000.
10. Thoracic anesthesia for pediatric patients. Conference on Pediatric Anesthesia. Crianca 2000. Curitiba, Brazil, May 2000.
11. Anesthesia for kidney transplantation in infants. Conference on Pediatric Anesthesia. Crianca 2000. Curitiba, Brazil, May 2000.
12. "Fast Tracking" in pediatric cardiac surgery. European Association for Cardiothoracic Anesthesiologists Annual Meeting. Aarhus, Denmark, June 2000.
13. Sedation and analgesia by non-anesthesiologists. 11th Annual Pediatric Anesthesia Conference. Fort Worth, TX, November 2000.
14. Effect of total intravenous anesthesia on children in the PACU. 11th Annual Pediatric Anesthesia Conference. Fort Worth, TX, November 2000.
15. Management of perioperative pain. 11th Annual Pediatric Anesthesia Conference. Fort Worth, TX, November 2000.
16. TIVA in children, Pediatric Anesthesia. Los Angeles, CA, February 2001.
17. Thoracic anesthesia in children. Pediatric Anesthesia. Los Angeles, CA, February 2001.
18. Regional anesthesia for cardiac surgery in children. Pediatric Anesthesia. Los Angeles, CA, February 2001.
19. TIVA in children. 36^a Jornada Sul-Brasileira de Anestesiologia. Londrina, Brazil, April 2001.
20. Non-cardiac surgery in the child with congenital heart disease. 36^a Jornada Sul-Brasileira de Anestesiologia. Londrina, Brazil, April 2001.
21. Fast-tracking for pediatric cardiac surgery. Hospital dos Servidores do Estado. Rio de Janeiro, Brazil, April 2001.
22. Perioperative management of children undergoing thoracic surgery. Copa D'Or Hospital. Rio de Janeiro, Brazil, April 2001.
23. Perioperative care for infants and children undergoing liver transplantation. Hospital de Clinicas, Curitiba, Brazil, April 2001.
24. Perioperative hypertension in infants and children. Grand Rounds, Dept. of Anesthesia, New York Medical College. Valhalla, NY, May 2001.

25. Single lung ventilation in infants and children. Society for Airway Management Annual Scientific Meeting. Newport Beach, CA, September 2001.
26. Regional anesthesia for open heart surgery in infants and children. Society for Pediatric Anesthesia Annual Scientific Meeting. New Orleans, LA, October 2001.
27. Intravenous anesthesia in children. Hospital for Sick Children Annual Conference. Toronto, Ontario, November 2001.
28. Anesthesia for pediatric liver transplantation. SAMPA 2002. Sao Paulo, Brazil, March 2002.
29. Single lung ventilation in infants and children. SAMPA 2002. Sao Paulo, Brazil, March 2002.
30. Thoracic anesthesia for infants and children. International Symposium on the Pediatric Airway. Pittsburgh, PA, April 2002.
31. Perioperative management for children with a mediastinal mass. International Symposium on the Pediatric Airway. Pittsburgh, PA, April 2002.
32. Single lung ventilation in infants and children. Annual Meeting of the Japanese Society of Pediatric Anesthesia. Nagoya, Japan, September 2002.
33. The use of neuraxial blockade in infants and children undergoing open heart surgery. Annual Meeting of the Japanese Society of Pediatric Anesthesia. Nagoya, Japan, September 2002.
34. Thoracic epidural anesthesia for cardiac surgery in infants and children. Annual Meeting of the Society for Regional Anesthesia. San Diego, CA, April 2003.
35. Dexmedetomidine – future uses in pediatrics. Japanese Society for Clinical Anesthesia. Shimonoseki City, Japan, October 2003.
36. Perioperative morbidity and mortality in infants and children. Japanese Society for Clinical Anesthesia. Shimonoseki City, Japan, October 2003.
37. Pediatric cardiac anesthesia. Joint Meeting of the Society for Pediatric Anesthesia New Zealand and Australia (SPANZA) and the British Society for Pediatric Anesthesia (BSPA). Adelaide, Australia, October 2003.
38. Lung isolation in infants and children. Joint Meeting of the Society for Pediatric Anesthesia New Zealand and Australia (SPANZA) and the British Society for Pediatric Anesthesia (BSPA). Adelaide, Australia, November 2003.
39. Regional anesthesia for open heart surgery in infants and children. Joint Meeting of the Society for Pediatric Anesthesia New Zealand and Australia (SPANZA) and the British Society for Pediatric Anesthesia (BSPA). Adelaide, Australia, November 2003.
40. Techniques for lung isolation in infants and children. Spring Meeting of the Society for Pediatric Anesthesia. Phoenix, AZ, March 2004.

41. Topics in pediatric anesthesia. World Congress of Anesthesia. Bordeaux, France, April 2004.
42. Regional analgesia for pediatric cardiac surgery. Pediatric Cardiac Anesthesia Meeting. Riley Children's Hospital, Indianapolis, IN, May 2004.
43. The safety of thoracic epidural catheterization in anesthetized infants and children. Annual Meeting of the American Society of Anesthesiologists. Las Vegas, NV, October 2004.
44. Coverage model for a pediatric liver transplant program. International Society of Liver Transplantation. Las Vegas, NV, October 2004.
45. Liver transplantation in children: the anesthesiologist's view. Simpósio Integração: Anestesia e Cirurgia Pediátrica. Sao Paulo, Brazil, November 2004.
46. Challenges in video-assisted surgery in small kids: the anesthesiologist's view. Simpósio Integração: Anestesia e Cirurgia Pediátrica. Sao Paulo, Brazil, November 2004.
47. New drugs and techniques for ambulatory anesthesia in small kids. Simpósio Integração: Anestesia e Cirurgia Pediátrica. Sao Paulo, Brazil, November 2004.
48. Alpha-2-agonists in children. Annual Meeting of the Brazilian Society of Anesthesiology. Curitiba, Brazil, November 2004.
49. The use of remifentanil in children. Annual Meeting of the Brazilian Society of Anesthesiology. Curitiba, Brazil, November 2004.
50. Anesthesia for thoracic surgery in children. Annual Meeting of the Brazilian Society of Anesthesiology. Curitiba, Brazil, November 2004.
51. New trends in liver transplantation in small kids: the anesthesiologist's perspective. Instituto da Crianca, Universidade de Sao Paulo, Brazil, November 2004.
52. Challenges in laparoscopy and thoracoscopy surgeries in small kids: the anesthesiologist's perspective. Instituto da Crianca, Universidade de Sao Paulo, Brazil, November 2004.
53. Alpha-2 agonists in pediatrics. 51st Brazilian Congress of Anesthesiology. November 2004.
54. Anesthesia for thoracic surgery—an update. 51st Brazilian Congress of Anesthesiology. November 2004.
55. Single lung ventilation in infants and children. Universidade de Sao Paulo, Brazil, November 2004.
56. Fast-tracking in pediatric cardiac surgery. The Fifth International Symposium on Pediatric Cardiac Intensive Care. Miami, FL, December 2004.
57. Perioperative management of infants and children undergoing unifocalization. The Fifth International Symposium on Pediatric Cardiac Intensive Care. Miami, FL, December 2004.

58. Techniques for lung isolation in infants and children. Spring Meeting of the Society for Pediatric Anesthesia. Miami, FL, February 2005.
59. Pharmacokinetics and pharmacodynamics in pediatric anesthesia. Seventh International Symposium of Anesthesia. Hospital dos Servidores do Estados, Rio de Janeiro, Brazil, April 2005.
60. Anesthesia for the patient with congenital heart disease undergoing non-cardiac surgery. Seventh International Symposium of Anesthesia. Hospital dos Servidores do Estado, Rio de Janeiro, Brazil, April 2005.
61. Lung isolation techniques for pediatric thoracic surgery. Mini Workshop, 7th International Symposium of Anesthesia. Hospital dos Servidores do Estado, Rio de Janeiro, Brazil, April 2005.
62. Alpha-2-agonists in pediatric anesthesia. 7th International Symposium of Anesthesia. Hospital dos Servidores do Estado, Rio de Janeiro, Brazil, April 2005.
63. Monitoring of ventilation in the pediatric patient. Pan African Anesthesia Congress. Hammamet, Tunisia, May 2005.
64. Management of low cardiac output in infants and children. Pan African Anesthesia Congress. Hammamet, Tunisia, May 2005.
65. Thoracic surgery in children: anesthetic considerations. Canadian Anesthesiologists Society 61st Annual Meeting, June 2005.
66. The Role of alpha-2 agonists in pediatric anesthesia. The Pierre Limoges Pediatric Anesthesia Lecture, Canadian Anesthesiologists Society 61st Annual Meeting, June 2005.
67. Management of low cardiac output in infants and children. Pequeno Principe Children's Hospital, Curitiba, Brazil, August 2005.
68. Sedation management for infants and children after cardiac surgery. Pequeno Principe Children's Hospital, Curitiba, Brazil, August 2005.
69. Perioperative management of infants and children undergoing liver transplantation. Pequeno Principe Children's Hospital, Curitiba, Brazil, August 2005.
70. Pharmacology for the pediatric anesthesiologist and intensivist. Pequeno Principe Children's Hospital, Curitiba, Brazil, August 2005.
71. Postoperative sedation and analgesia in infants and children. Kobe University School of Medicine. Kobe, Japan, September 2005.
72. Dexmedetomidine. Japanese Society for Pediatric Anesthesia. Shizuoka, Japan, September 2005.
73. Total intravenous anesthesia. Japanese Society for Pediatric Anesthesia. Shizuoka, Japan, September 2005.

74. Remifentanil and dexmedetomidine in pediatric anesthesia. Forty-fourth Clinical Conference in Pediatric Anesthesiology. Anaheim, CA, February 2006.
75. Awareness during anesthesia – The Digby Leigh Lectureship. Forty-fourth Clinical Conference in Pediatric Anesthesiology. Anaheim, CA, February 2006.
76. Anesthesia for GI endoscopy. Forty-fourth Clinical Conference in Pediatric Anesthesiology. Anaheim, CA, February 2006.
77. Single lung ventilation in infants and children. International Symposium on the Pediatric Airway. Pittsburgh, PA, June 2006.
78. Postoperative sedation following tracheal reconstruction in children. International Symposium on the Pediatric Airway. Pittsburgh, PA, June 2006.
79. Challenges in pediatric anesthesia. Annual Meeting of the American Society of Anesthesiologists. Chicago, IL, October 2006.
80. Anesthesia for pediatric thoracic surgery (Review Course Lecture). Annual Meeting of the American Society of Anesthesiologists. Chicago, IL, October 2006.
81. Perioperative management of children undergoing liver transplantation. Meeting of the Children of the World Anesthesia Foundation. Mexico City, Mexico, April 2007.
82. Pharmacology of sedative/hypnotic agents in pediatrics. Meeting of the Children of the World Anesthesia Foundation. Mexico City, Mexico, April 2007.
83. Pharmacology of opioids in pediatrics. Meeting of the Children of the World Anesthesia Foundation. Mexico City, Mexico, April 2007.
84. Anesthetic management of the critically ill child. Meeting of the Children of the World Anesthesia Foundation. Mexico City, Mexico, April 2007.
85. Lung isolation in pediatric anesthesia and critical care. Fifth World Congress of Pediatric Intensive Care. Geneva, Switzerland, June 2007.
86. The use of dexmedetomidine in pediatric critical care. Fifth World Congress of Pediatric Intensive Care. Geneva, Switzerland, June 2007.
87. Lung isolation in infants and children. 15th ASEAN Congress of Anesthesiologists. Pattaya, Thailand, November 2007.
88. Total intravenous anesthesia in infants and children. 15th ASEAN Congress of Anesthesiologists. Pattaya, Thailand, November 2007.
89. Emergence delirium in infants and children. Annual Meeting of the Japanese Society of Anesthesiologists. Okinawa, Japan, November 2007.

90. Remifentanyl - pharmacology and clinical use in pediatric anesthesia. Annual Meeting of the Japanese Society of Anesthesiologists. Okinawa, Japan, November 2007.
91. Dexmedetomidine: should it be used in children? World Congress of Anesthesia. Cape Town, South Africa, March 2008.
92. Pulmonary hypertension in children. Association of Pediatric Anaesthetists 35th Annual Meeting. London, England, May 2008.
93. Managing the "Difficult Circulation." Association of Pediatric Anesthetists 35th Annual Meeting. London, England, May 2008.
94. Awareness in pediatric anesthesia. Commissioned Training for COC (Anesthesiology). Hong Kong, November 2008.
95. Emergence delirium. Commissioned Training for COC (Anesthesiology). Hong Kong, November 2008.
96. TIVA in infants and children. Commissioned Training for COC (Anesthesiology). Hong Kong, November 2008.
97. Dexmedetomidine in children: do we have enough evidence? Annual Scientific Meeting in Anesthesiology 2008. Hong Kong, November 2008.
98. Single lung ventilation in infants and children (including workshop). Annual Scientific Meeting in Anesthesiology 2008. Hong Kong, November 2008.
99. The use of sevoflurane in pediatrics. Anesthesia International Summit. Shanghai, China, January 2009.
100. Emergence delirium – designing clinical trials. Kandang Kerbau Children’s Hospital. Singapore, June 2009.
101. Dexmedetomidine – an evidentiary approach to use in children. Kandang Kerbau Children’s Hospital. Singapore, June 2009.
102. The univentricular heart—balancing the circulation. National Heart Institute. Kuala Lumpur, Malaysia, July 2009.
103. Open heart surgery for low birth weight neonates. National Heart Institute. Kuala Lumpur, Malaysia, July 2009.
104. Emergency delirium in children. 16th ASEAN Congress of Anesthesiologists and 7th National Conference on Intensive Care. Kota Kinabalu, Malaysia, July 2009.
105. New trends in pediatric anesthesia (plenary lecture). 16th ASEAN Congress of Anesthesiologists and 7th National Conference on Intensive Care. Kota Kinabalu, Malaysia, July 2009.

106. Dexmedetomidine in pediatric anesthesia—the evidence supporting its use. 16th ASEAN Congress of Anesthesiologists and 7th National Conference on Intensive Care. Kota Kinabalu, Malaysia, July 2009.
107. Cardiac effects of Dexmedetomidine and applications in the ICU. Harvard Anaesthesia Update: Innovation and Transformation in Anesthesiology. Boston, Massachusetts, May 17, 2010.
108. Innovations in Analgesics: IV Acetaminophen. Harvard Anaesthesia Update: Innovation and Transformation in Anesthesiology. Boston, Massachusetts, May 18, 2010.
109. Analgesia in the Cardiac ICU. Second Symposium on Intensive Care and Pediatric Cardiology. Porto Alegre, Brazil, August 2010.
110. Perioperative Management for newborns with Hypoplastic Left Heart Syndrome. Second Symposium on Intensive Care and Pediatric Cardiology. Porto Alegre, Brazil, August 2010.
111. Sedation in the Cardiac ICU. Second Symposium on Intensive Care and Pediatric Cardiology. Porto Alegre, Brazil, August 2010.
112. Perioperative Management of children undergoing the Glenn and Fontan Operations. Second Symposium on Intensive Care and Pediatric Cardiology. Porto Alegre, Brazil, August 2010.
113. Anesthesia for Patients with Congenital Heart Disease - Balancing the Circulation Karolinska University Hospital. Stockholm, Sweden, September 2011.
114. The Use of Dexmedetomidine in Children. The Use of Inotropes in Infants and Children with Low Cardiac Output Swedish Society of Pediatric Anesthesia. Gothenburg, Sweden, September 2011.
115. Single Lung Ventilation in Infants and Children. Annual Meeting of the Society for Pediatric Anesthesia. Tampa, Florida, February 2012.
116. Physiology of single lung ventilation in children. 7th International Symposium on the Pediatric Airway. Aurora, Colorado, May 2013.
117. Challenges in single lung ventilation in infants and children. Annual Congress of the European Society for Paediatric Anaesthesia. Geneva, Switzerland. September 2013.
118. The Pharmacology of sedative drugs in the pediatric intensive care unit. Pediatric Sedation Outside of the Operating Room. San Francisco, CA, September 2014.
119. Preparing for the Last 10 Years of Practice. Annual Meeting of the Society for Pediatric Anesthesia. Phoenix, Arizona, March 2015.
120. Dexmedetomidine and Anesthetic Neurotoxicity. 12th Congresso Paulista de Anestesiologia (COPA). Sao Paulo, Brazil, April 24-26, 2015.
121. Pharmacology for the Pediatric Anesthesiologist. 12th Congresso Paulista de Anestesiologia (COPA). Sao Paulo, Brazil, April 24-26, 2015.

122. Anesthesia for Children With Congenital Heart Disease Undergoing Non-cardiac Surgery. 12th Congresso Paulista de Anestesiologia (COPA). Sao Paulo, Brazil, April 24-26, 2015.
123. Vascular Rings in Children. Congenital Cardiac Anesthesia Society Annual Meeting. March 2017, Austin, TX.
124. Wellness in the Practice of Medicine. Annual Meeting of the Healthcare Financial Management Association. Lake Tahoe, CA, September 21, 2017.
125. Physiology of single lung ventilation in infants and children. 64th Brazilian Congress of Anesthesiology. Curitiba, Brazil, November 10-14, 2017.
126. Anesthetic neurotoxicity in the developing human. 64th Brazilian Congress of Anesthesiology, Curitiba, Brazil, November 10-14, 2017.
127. Physician Wellness in Hospital Medicine. International Anesthesia Research Society 2018 Annual Meeting. Chicago, IL, April 2018.
128. Physician Wellness and Burnout: A Complete Look at Factors Both in the OR and ICU. American Society of Anesthesiologists Annual Meeting. San Francisco, CA, October, 2018.
129. Wellness in Medicine. SPA-AAP Pediatric Anesthesiology Annual Meeting, March 2019, Houston, Texas.
130. One Lung Ventilation in Children. SPA-AAP Pediatric Anesthesiology Annual Meeting, March 2019, Houston, Texas.
131. Enhancing Personal Resilience. SPA-AAP Pediatric Anesthesiology Annual Meeting, March 2019, Houston, Texas.
132. "Wellness in Medicine". Harvard Anesthesiology Update 2019, Boston, MA, May 15, 2019.
133. "Are We Poisoning Our Patients? Neurotoxicity and Other Toxicity of Anesthetic Agents in Children". Harvard Anesthesiology Update 2019, Boston, MA, May 15, 2019.
134. "Physician Wellness in Hospital Medicine: Thriving, Not Simply Surviving". International's Anesthesia Research Society Annual Meeting, May 18, 2019.
135. Neurotoxicity of sedation drugs in the intensive care unit. Simposio Internacional de Cardiologia Terapia Intensiva Cardiaca Neonatal y Pediatrica. Rio De Janeiro, Brazil, August 2019
136. Single Ventricle Physiology. Simposio Internacional de Cardiologia Terapia Intensiva Cardiaca Neonatal y Pediatrica. Rio de Janeiro, Brazil, August 2019.
137. Anesthetic Neurotoxicity. Pediatric Anesthesia Review Course, Rio de Janeiro, Brazil, August 2019.
138. The Perioperative Surgical Home and ERAS in Pediatric Anesthesia. Pediatric Anesthesia Review Course, Rio de Janeiro, Brazil, August 2019

139. GAIN Without Pain: Wellness in Medicine. ASA EXECUTIVE PHYSICIAN LEADERSHIP PROGRAM, Kellogg School of Business, Northwestern University, Evanston, IL, Sept 6, 2019
140. Physician Wellness: Thriving in the Practice of Medicine. Annual Conference 2020: Pediatrics in the Pandemic Age. November 7, 2020, Monterey, CA.